

ENCLOSURE AND BIOMETRIC DATA COLLECTION FOR
FINGERPRINT SENSOR DEVICE

ABSTRACT OF THE DISCLOSURE

The enclosure assembly comprises a stationary member including at least two substantially parallel sidewalls, the sidewalls, the sidewalls partially defining a cavity in which the fingerprint sensor is disposed. An access piece, configured to move relative to the stationary member, has a surface area larger than the surface area of the fingerprint sensor and further includes a conductive portion electrically coupled to ground. A movement apparatus is preferably mechanically coupled to the stationary member and the moveable access piece. The movement apparatus is configured to maintain the moveable access piece in a position covering the fingerprint sensor and yet to allow motion of the moveable access piece relative to the stationary member so as to expose the fingerprint sensor. According to another embodiment, a method for enrolling a composite image of an object using a fingerprint sensor is provided. According to an embodiment, the method comprises the steps of receiving a finger disposed over a fingerprint sensor in a first stationary position; capturing a first image of a first portion of the finger with the fingerprint sensor; causing the finger to be repositioned over the fingerprint sensor in a second stationary position; capturing a second image of a second portion of the finger with the fingerprint sensor; and constructing a representative image of the finger from the first and second images.